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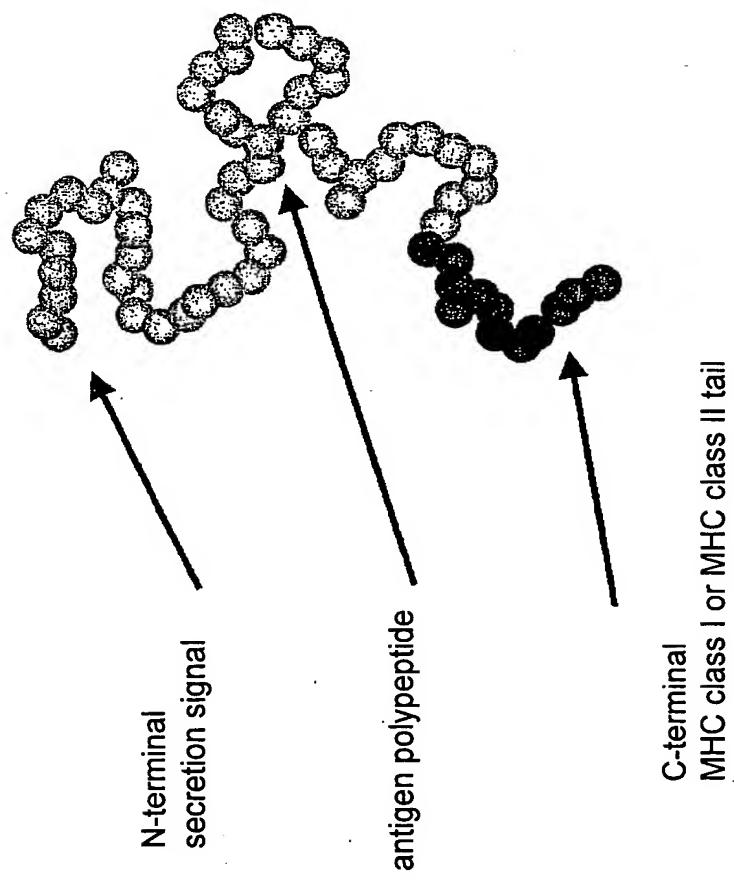
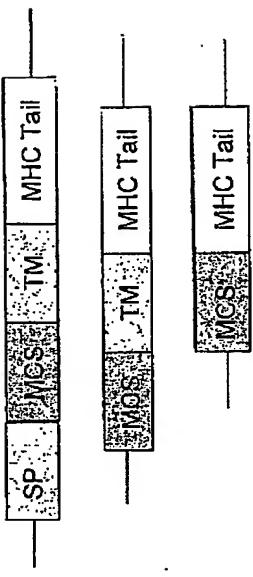


Fig. 1

**Fig. 2**

cassettes containing cloning sites (MCS) for expression of MHC fusion proteins of the invention



cassettes containing antigens cloned therein for expression of MHC fusion proteins of the invention

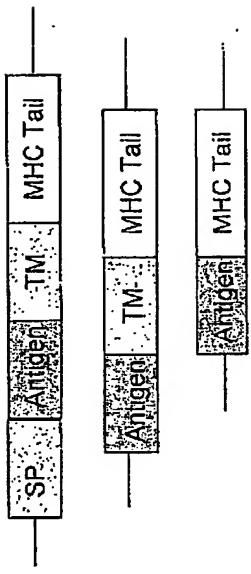
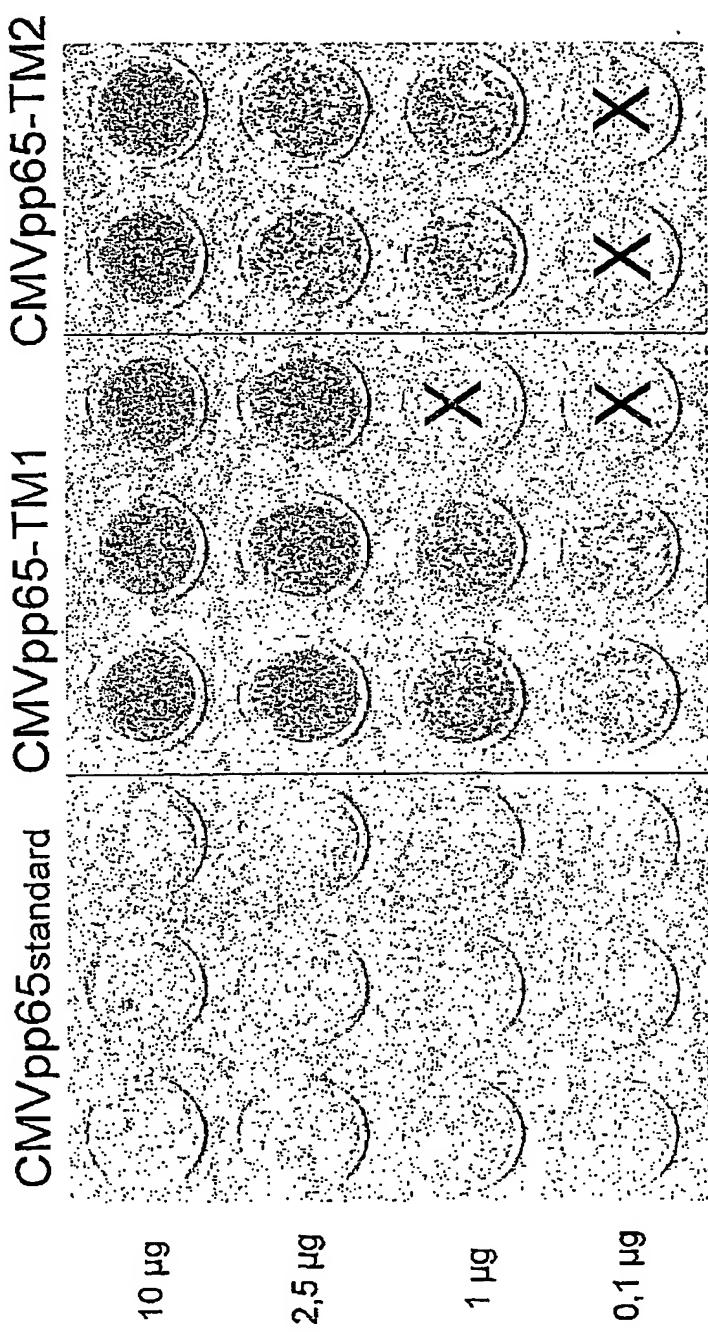
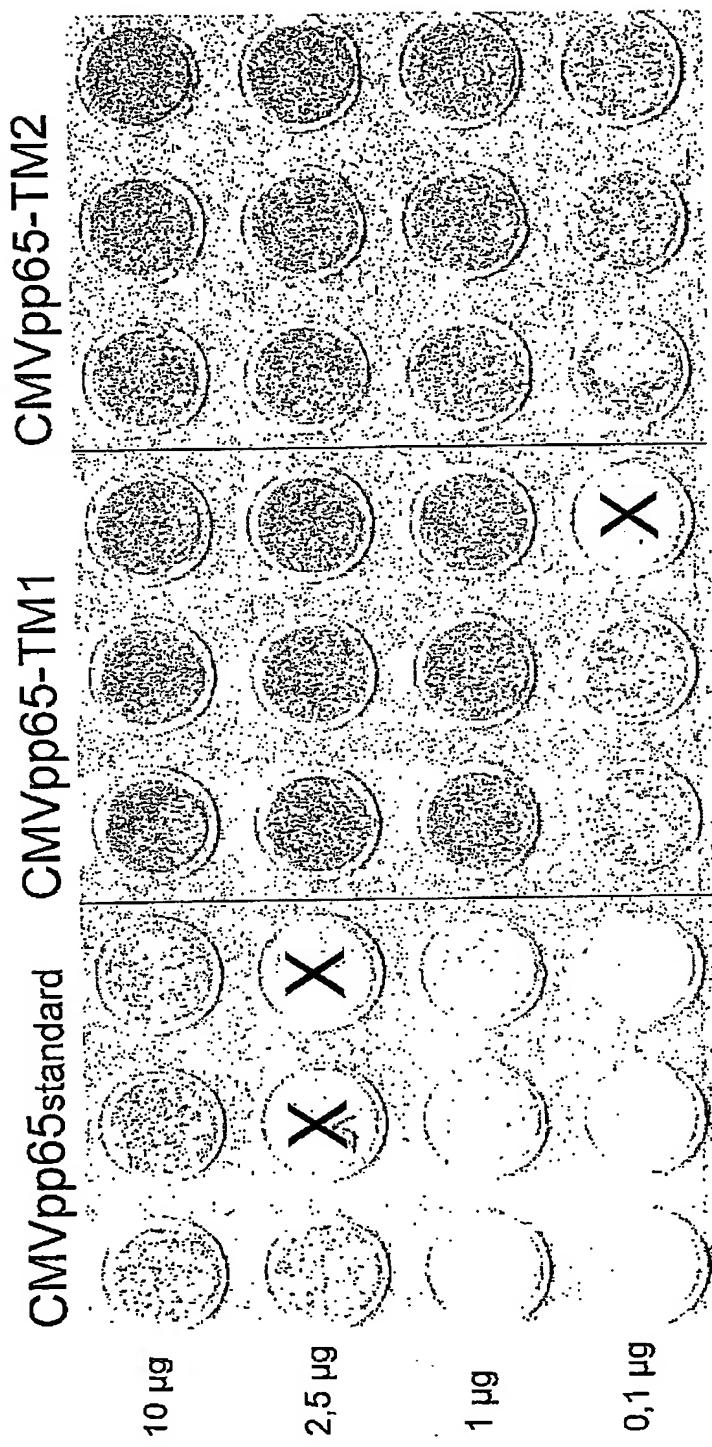


Fig. 3



**Fig. 4**

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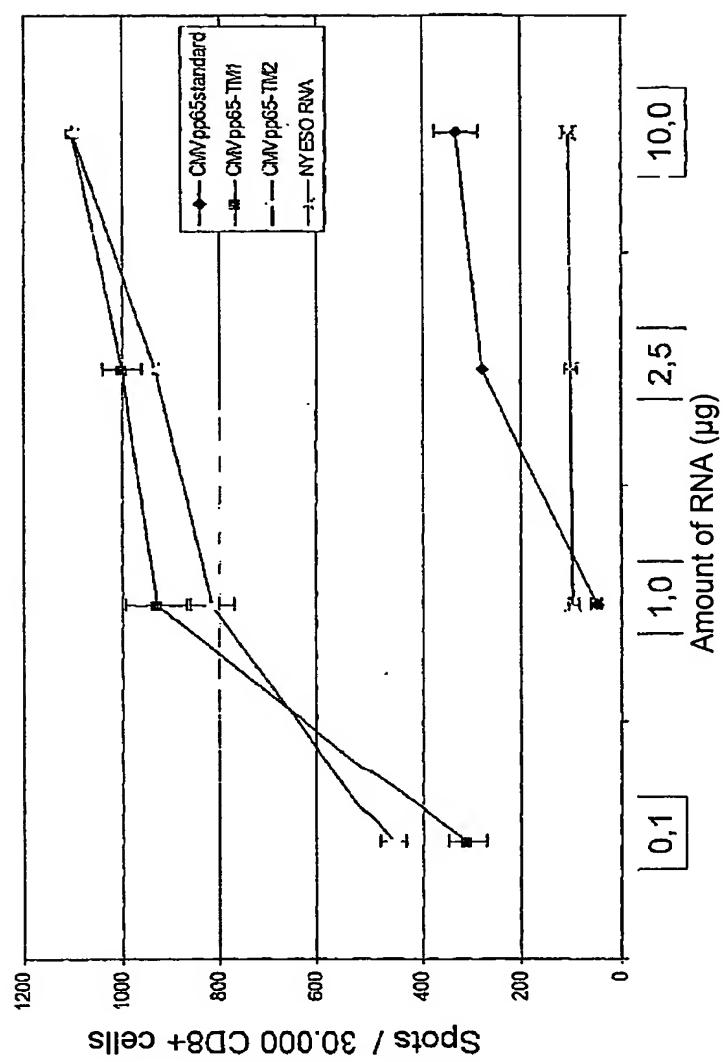
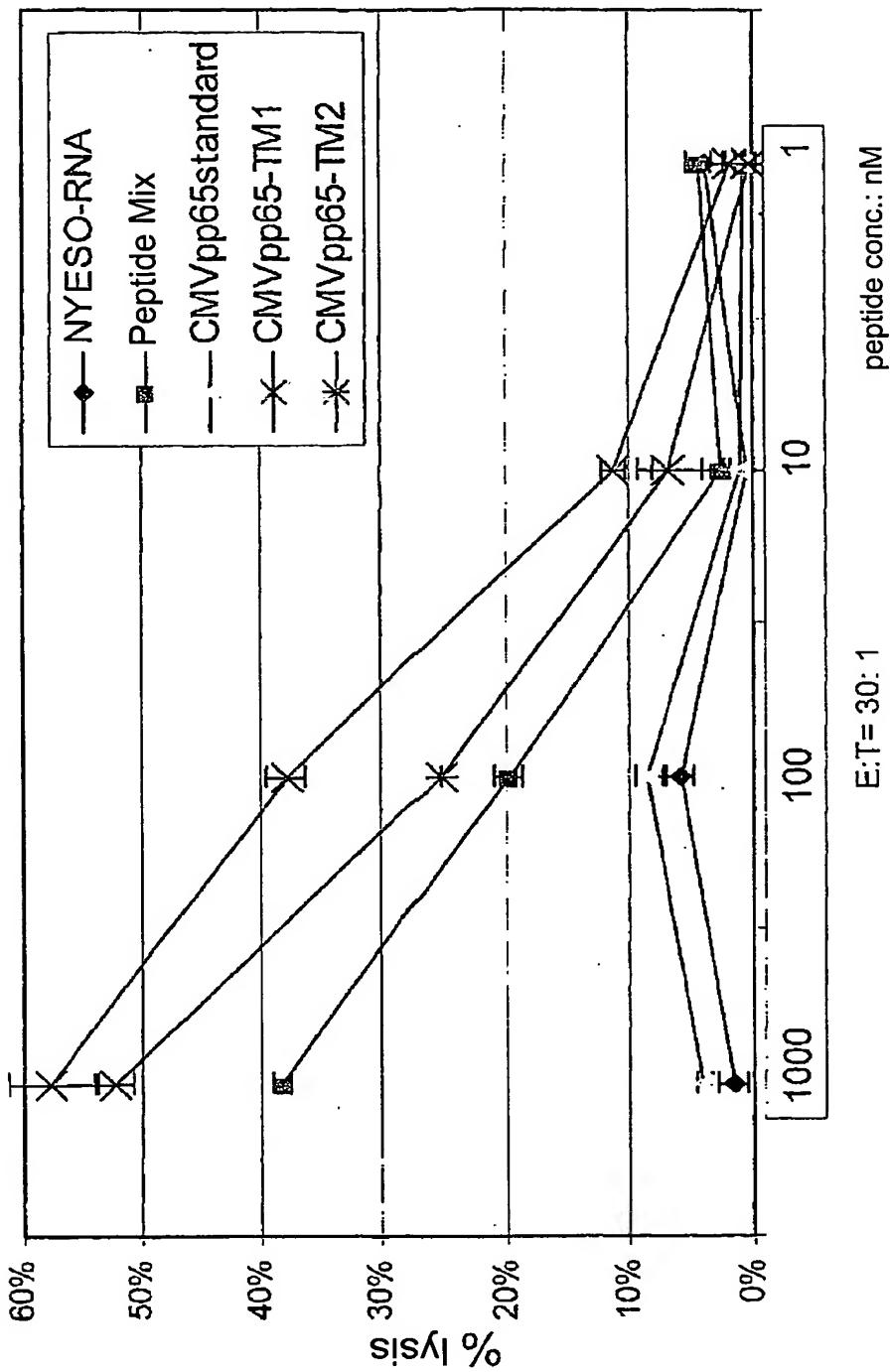


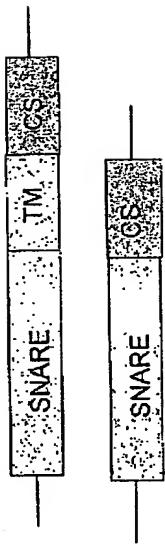
Fig. 5

Fig. 6

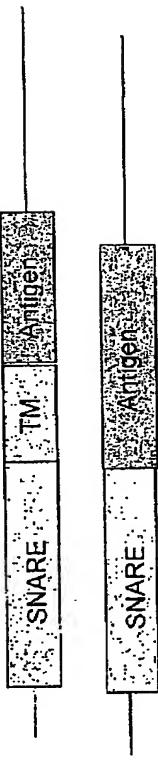


**Fig. 7**

cassettes containing cloning sites (CS) for expression of SNARE fusion proteins of the invention



cassettes containing antigens cloned therein for expression of SNARE fusion proteins of the invention



8  
Fig.







		<p>361 tcateggcc aggccaggat gttcttacc ggcgttacc tgccuacgty cutcgagggc      421 cagccccata ttcccaata cggtttacgc acggtcacct tcgacggac gcggcgatcc      481 ggccacacgc ctccgacca tgccgacca tgccggcgac actccatca gcatcgatcc      541 cccatggcc agccggctc gtcggccat ccggatccat cccgttcat      601 ggctggccca cccatccata ccaattata cccatccata cggccatccat cccgttcat      661 tacagcgtg ccaattata ccaattata ccaatgaca tccatggccat cccgttcat      721 atyaacttag gaggcacctt aaaggccac agccatgggt acggatggaa taacacaca      781 agcccaatcc tctggggac ctaatcaga atadacacgc acggtgctt cccgttcat      841 caggatgtc gacgtgtcc tggtgttcc tggtgttcc cccgttcat      901 agtgayaaac gcccgttcat gtgtgttcat cccgttcat      961 tccccatcc agatgtccat cggaaapcac acctgttggaa aaccatccaa gtggacttc      1021 aaggatgtg aaccaatggt ttcgttca gaccgttca aatggacatc aatggacatc      1081 acagggttga aaccatccaa gtgtaaaact tgccggas      1141 ctggaaacc accaggac tcatggccat aatggccatc      1201 tggccaaatgt gtcggaaaaa gttggccgg tcatggccat      1261 catcggaaa acatggccaa actccatggt ggggtt</p> <p>66 p53</p> <p>1 atcgaggagc cgcaatggaa tcctragtggaa tgaggccctcc gggccccc      61 gacccatggaa aacttttcc tggaaaaccc ttccgggtcc cttccgggttcc      121 gatgtttggaa tgctgttcc ggacgttggaa gaaatgttggaa      181 gatgtttggaa ccagaatgtcc ggacgttggaa cccctgtgg      241 acacccgggg cccctgtcc acggccatcc tggcccccgtt cccatccat      301 aaaaatcc accggatcc tggccatcc tggccatcc      361 tctgttgcatt gacgttgcctt ccgttgcctt aatggatgtt ttgtccaaatgt      421 tgccctgtc agctgtgggt tgatccaca cccucggccy      481 gccatccatca aaggttccaa gcaatggccg gagggttgtgaa      541 cgttgcattt atggatgtt tccgttccatcc tttttttttt      601 ttgtgtgggg agatgttgggg tggccatcc      661 gagccgttgcctt agtttgcctt tgactgttacc accatccat      721 tcctgtatgg ggccatggaa ccggggcc accatccatcca      781 agtgttaatc tactttggacg gacatgttt gagggttgtt      841 gacccggccca cggggggaa gatggaaaga aatccatcc      901 ccaggaggca ctaaggggac actggggcc acaccatgg      961 aaccatccatgg atggggatata ttccatccat      1021 ttccggggcc tggggggcc atggggatggcc      1081 gggggggcc ctcactccatcc      1141 aaaaaactca tggccaaatgt gggccggccat      1201 aaaaaactca tggccaaatgt gggccggccat      1261 aaaaaactca tggccaaatgt gggccggccat</p>
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**Fig. 9**

Seq ID No	Type	Name	Sequence
15	MHC	HLA-A	PSSQPTIPVGI TAGLIVLGAVITGAVVAAVMWRRKSSDRKGGSYSSQAASSDSZQGSDFSVSLTACKV
16	MHC		GSSYQASSDSAQQGSDVSLTACKV
17	MHC	HLA-B	PSSQPTIPVGI TAGLIVLGAVITGAVVAAVMCRRKSSGGCGSYSSQAACSDSAGSDVSLTA
18	MHC		GSSYQAAACSDSAGSDVSLTA
19	MHC	HLA-C	PSSQPTIPVGI TAGLIVLGAVITGAVVAAVMCRRKSSGGCGCSQAAASSNAQGSDESLTACKA
20	MHC		SAQGSDESLIACKA
21	MHC	HLA-E	PASQPTIPVGI TAGLIVLGAVITGAVVAAVMCRRKSSGGCGSYSSKAewsDSDSAQGSESHSL
22	MHC		GSSYKAEWSDSAQGSESHSL
23	MHC	HLA-F	QSPSQPTIPVGI TAGLIVLGAVITGAVVAAVMCRRKSSDRNGSYSSQAATDSDAQGSGVSILTANKV
24	MHC		RNQRGSYSQAATDSDAQGSGVSILTANKV
25	MHC	HLA-Dra	VVCALGELTVGVLGIGI TGTFLIKGLRKSNALERGPL
26	MHC		RKSNAAEERGPL
27	MHC	HLA-DRB	MLSGEGVGTVGLLFLAGLFLYFRNQKGHSGLQPRGELS
28	MHC		GHSGLQPRGELS
29	MHC	HLA-Dqa	VVCALGELTVGVLGIGI VVETFLIQGLRSVGASZHQGPL
30	MHC		VGASRHOQPL
31	MHC	HLA-DCb	MLSGIGCEFTVGLLFLGFLGHTI HHSOKGLHN
32	MHC		RSOKGLHN
33	MHC	HLA-Dpa	VLCALGIVMGLGVGIVGIVTMLIKSIRSCHDRAQGTI
34	MHC		RSQHDPAQGTI
35	MHC	HLA-Dpb	TLTGAGGERVGLLITCGGATMERRSKVKQRGSA
36	MHC		SKKVQRGSA
37	MHC	CD1a	FILLAVIVPLLLIGLAMWERKRCEFC
38	MHC		RKRRCFC
39	MHC	CD1b	IYLAITYPSILLLCLAEETMRRRSYQXIP
40	MHC		RRRSYQXIP
41	MHC	CD1c	WIALWVTVPLVIVLIVIVLWERKHCSIQDII
42	MHC		KRKCSCQDII

Fig. 10

SEQ ID NO	Type	Name	Sequence
4.3	SNARE	Cis-golg1 SNARE p28	MAAGTSSYYE DIRKQAROLE NETDILKLVSP SELCTSYISH SSTRGDRDRY SSDTPTLNG SSQDRMFETM AIEJEQQLJAR LTGYNDEMAE ITNSACVPSI NAALMHTLQR ERDLQDYTH EFKHTKANEM AIRERENIMG SVERDIESYK SGSGSYNNRRT ELTETHTDEL RNSDRUETEET ISIAMATKEN MUSQRGMLK5 IHSKONTLN RFPAVNSLQ RINERKRD5 LILGGYTIGIC TELLLLYAF3
44	SNARE	VIT10	MGAASLTSGT QBKLIIRDDE KOEAKNMLT OMEREHLHYAP VSEANEMSK LQDQXDLAQ EHLEARMPG DRGDMDKYGT AVENEHMNRL OSQRAMLQG TKSLGRATQE TDQIGSLEISE ELGNORDQ
45	SNARE	Membrin	MDPLFOOTHK QVHEILOSCMG BUEFTADKOSV HYVNETOQS IDQITSRFLFR LETLSSKEPP NKRONAARLRV DOLKVDVQHL QPAFLRNFEHQH RHAPEQQFRQ REELLSRFET TNDSDTTPM DESLQFNSSL QRVHNGMDDI ILDGHNILDG LRTQRLTKKG TQKKLJDAN MLGLSNIVMR LIIEKRAFDQK YPMIGCMILT CYWMFLVWQY LT
46	SNARE	Pallidin	MSVPGPSPD GALTTRPFYCI EAEQPTPGLS DTSVDEGLK DLITTEKAVF QIAEGLISHY LPDLQRSKQA LQELTNQNV LLDTLQEIS KFTECHSMLD INALPAEAKH YHAKLVNIRK EMMMLHEKTS KURKRALKLQ QREKEEELR EQREKEEFER EKOLTAHAK RM
47	SNARE	Syntaxis-5	MSCRDRTOEF LSACKSLQTR QNGOTNPKA LRAVRORSEF TLMARKIGKD LSNTFAKLER ITTLAKRKS1 FDDRAVEEE ITTLIKODIN SLANKOIAQLQ DFRAKRSQS GRHLQHISNT IVVSLQSKLA SMSNDUEKSVL EVERTENLKKQ RERREQESRA PVSALPAPN HLGGAIVVLG AESHASHKDV4 IDMMDSRTSQ QLQDIDEQD YIQSRADTMQ NIESTVILG SIFQQLAHMV KEQEBETTQRI DENVIGAQLD VEAHSEILK YFQSYTSNWRW LMVKFLILLI VFVILEVVTL A
48	SNARE	Syntaxis-6	MSMEDDPFFV KGEVQKAINT AGGLEFORWE LLQDSTATR EETIWTNEI RNNLRSIED LEDDETTS1 VEANHKFNL DATELSIRKA FITSPRQVR DMKDPMSTSS VOALAERKNR QNLIGDGSQ NWSTGTTDKY GRDRELQRA NSHETEEQQA OCQCLIVEQD EOLELYGSII CVLKNMSQRI GGELEEQAVM LEDESHELES TOSRLDNVMK KLAKYSHNTS DRONCJAI LFAYLLVYL1 LFYL1
49	SNARE	Syntaxis-7	NSXTPGVGGD PAQIAGRIS5 NIOKITOCSV EIGORTINOLG TPQDSPELRO QLOOKQOQTN QIAKETDKY1 KEGSLPTP SPEROKRIQK DRJVAEFTS LTNEFOKVKQRQ AAEREKEEVA RVRASSERVG SFPESSKER NLVSNESQTQ PQVQVQDEE1 TEDDLRLLIE RESSIROLEA DEMDINE1FK DLMGMHHEQG DVIDSZEANV ENAELVHQQA NOQLSRADY QRKSRTLCI TILLVIGVA ITSLIWGLN H

50	SNARE	Syntaxin-8	MADPMWSTY DSTCQIAQEI AEKIQQRNQY ERGEKEAPKL TUTIRALQN IKEYTALLKD LLRRAVSTHQ UTQEGYRRQ NLLDDLEVTRE HLLASTKNE GRPDPLRSSS INSEBAAKRG PNPWLFEEPE ETRGLEFDEI RQOQKILIE QDAGLDALSS LLSRQKOMGQ EIGNDLDEQN
51	SNARE	Syntaxin-10	EILDOLANLV ENTIDEKLNE PRVRNMVDRX SASCGMIVYI LLLIVVAVFTIN MSLEDPPFFVV RGEVQRAVNT ARGLYQRWC E LQESAAVGR EELDWITNEL RNGLHSIEWO LEDGLEETIGI VEANPGKPAQ KSPSDILDA AVSATSRVYI EBOQATOQLI MDEQQQOLEM VSGSIQVZKH MSGRVGEIZLD EQGIMLDAFAQ QEMDTQSRM DGVLRKAKV SHETSDRROW
52	SNARE	Syntaxin-10 <sub>a</sub>	CAIAVNGVIL LIVLILFSL MSLEDPPFFVV RGEVQRAVNT ARGLYQRWC E LQESAAVGR EELDWITTEL RNGLHSIEWD LEDGLEETIGI VEANPGKPAQ KSPSDILDA AVSATSRVYI EBOQATOQLI MDEQQQOLEM EILLAGKPAQ KSPSDILDA QGIMLDAFAQ EMDHTQSMD GYLRKAKVSHETSDRROWC ALAVLVGVL SGRVGEELDE QGIMLDAFAQ EMDHTQSMD GYLRKAKVSHETSDRROWC ALAVLVGVL
53	SNARE	Syntaxin-11	LIVLILFSL MKDRLAELLD LSXQYDQQFP DGDEFDFSPH EDIVYFETDH LESLYRDIRD IQDENIQLIVA DVKRJGQNA REFTSMRRLS SIXRUTNSIA KAIPARGEVU HKCLURAMKEL SEAABRQHGP HSavarisbra QYNALTIL'FQ RAMHDYNOAE MKORDNCIKR IQRQDLMGK EVSGQDLDN FEQGRKWDVFS ENLLADYKGR GPETTRSRAA TANCZAWRA IDYVBLFLQ MAVLVEKQAD
54	SNARE	Syntaxin-12	TINVIELINQ KVTDYTGQK AQPRAVQYE ERNPCTILC FCCPCK MSYGELDMYR NGFESGPQLR DEISLQITQNL DKEQKTSQQL GNQRIQSQAT AQIKNLMSQL GTKQDQSKLQ ENLQQLQHST NQLAKETNL DEKLGSLPLP LSSEORQR LQERIMNDF SAALNNQFQAV ORRVSEKEKE SIEPARAGSK ISPEERORREE QVYFSDSHE WNOQSCED E VATEQDIEL IKERETAIRO LEADLIDVNO IFEDLAMMIIH DQGDJLDSLE ANVESSEVIV ERATEQDORA AYTORKSRRK MCJLIVLVLJV LILIGLIIW LVTKK
55		Syntaxin-17	MSEDEEKVKL RELEPAIQKF IKVLPINTLE RLRKHQINIE KYQCRJLWDK LHEEHINAGR TVQQLRSNR EZEKLCIKVR KDDIVLJKRM IDPKYEEASA ATAEELQLHL ESVELLKQF NDEETILQOPP LTRSMTYGGA FHTTEAEASS QSLTQIYALP EIPODQNAAE SKELLEAUJ EISQIVTDFS LLYNQQEKTJ DSTADHVNSA AVNVEEGTKN IGKAARYKIA ALPVAGHATIG GMVGGPIGLL ACEFKVAGIRA ALGGGGYGET GGKLQREKKQ KMVKETLSSC PDLPSPOTDK CS
56	SNARE	VAMP-2	MSATHATAPP AAPEGGPP APPNPLTSNR RLQQTQAVD EVDIMRNVN DKVLERDQKL SELDDRADAL QAGASQFETS AAUKERKRYW KNKEMMILLG VICALLIII IVYFESS
57	SNARE	VAMP-3	MSTGPTATG SNRRIQQTQN QVDEVDIMR VNVTOKYLERD QKLSSELDRA DALQGASQF ETSAAKLRK YWKNCMWA IGLTIVVIFI LLLIVWVVS

58	SNARE	VAMP-4	MPPKFKTHLN DDDVTGSKS ERNLLEDS ZEEDEFTRG FSGPRFGPRN DKLKHVQVQV DEVIDVMPM ITKVIERCER LDRLQDKSES ISDNATAFSN RSKQLRQMV WRGCKRIKAIM ALVAAILLLY LILLIVMKYR T
59	SNARE	VAMP-7	MALLFAVIR GTTILAKIAN CGGNFLEVTE OILAKIPSEN NKLYSHGNX LCLYLICQDRT VIJJCITDDDF ERSRAFENTIN EIKKFROTTY GSRQATLALPY AMNSEFSSVL AAGQKMHSEN KGLDKYMETQ AQVDELGTM VENIDLVAQR GERLELLIDK TENLVDSVT EKTTSRNLR
60	SNARE	VAMP8	AMCMKNLKL T LLLIVSIVT IYIIVSPICG GFTWPSCYK MEEASEGGGN DRVRNLQSEV EGVKNLTON VETILARGEN LEHRLNKED LEATSEHFKT TSQKVARKFW WKNVKMIVLI CVIVFLILF IVLFATGAFS
61	SNARE	VII1-a-beta	MS3DFEGIEQ DFLVTLAIIT SKIARYPRLP DEEKKOMYAN VPKQLEAKE LLEQMDLEVR EIPPQSREGY SNRMRSYKOE MCKLLETDEKR SRLAYSDEVR NELLGGDGNS SENQRHILD NTERLERSRR RLEAGYQIAV EUHQIGQEML BNLSHDREKI QPAPERLRET DANIGKSSRJ LTGMILRRGCS VKQOCNLSLA PKA
62	SNARE	XP350893	MRDLILPDITA CRKNDGDTV YVEVKDHFM DPFHQVEEIR NS1DKTQYV EEVRENHSII LSAPNPFFGKI KEELLEDLNKE IKTANKLRA KLUZALEQSFD QDESGNRTSV DLRLRBTQHS VLSRKFVEM AEYNEAQTLF REBSKGRIQR QLEITGRITT DDELEEMLES GKPSLFI'SDI ISDSQITRQA INBIESRHKD IMKLETSIRE IHEMEDMAN FVETOGENMIN NIERNVMNAT DYVEHAKETT KKAIIKYOSKA REVSLASKN
63	SNARE	I.I.P5	CMAALAALPFP LPAQFKSICH HIFTAQEHDK RDPVVAYCR LYAMOTGKMI OSKTPCICKF LSKIMDOLEA JKQKLGDNEA ITQEIVGCX LENZAJKMF YADNEDAGR FHKMKSFY TASLLLIVIT VGEELTDENV KURKARYWKA TYIHCNCLKEW GDSSSRDCWE LKKMILKOM KMLEQPLCP1 SQUISHHLQL MTQOHALRQL YWNTDSSGGCT RSS

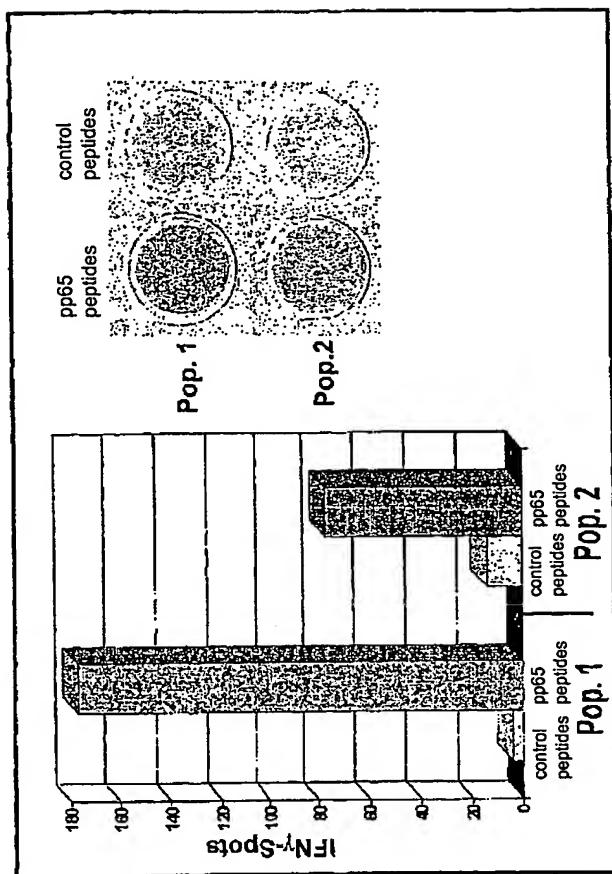


Fig. 11

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